

**DEPARTMENT OF TRANSPORTATION****DIVISION OF ENGINEERING SERVICES**

Office of Structural Materials

Quality Assurance and Source Inspection



Bay Area Branch  
690 Walnut Ave.St. 150  
Vallejo, CA 94592-1133  
(707) 649-5453  
(707) 649-5493

Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.15**SOURCE INSPECTION REPORT****Resident Engineer:** Pursell, Gary**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** SIR-001566**Date Inspected:** 28-Jan-2009**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island**Location:** Changxing Dao, Shanghai**Quality Control Contact:** William (Bill) Oak**Quality Control Present:** Yes No**Material transfer:** Yes No N/A**Sampled Items:** Yes No N/A**Stock Transfer:** Yes No N/A**OK to Cut:** Yes No N/A**Rebar Test Witness:** Yes No N/A**Delayed/Cancelled:** Yes No N/A**Other:** Coatings Inspection**Bridge No:** 34-0006**Component:** OBG 3BW & OBG 5AE**Bid Item:** 77, 78, 79**Lot No:** B265**Summary of Items Observed:**

On this date Caltrans Office of Structural Materials (OSM) Quality Assurance (QA) NACE III coating inspector, Mr. James Lumley arrived on site at the Zhenhua Port Machinery Company (ZPMC) facility at Changxing Island in Shanghai, China. The purpose of the coating inspections are to monitor the surface preparation and coating applications for the SAS Bay Bridge project. This QA NACE III coating inspector observed the following:

QA Lumley checked surface preparation on segment OBG 3BW additional re-work required on interior surfaces is required and re-blasting required prior to the application of Interzinc 22 for repairs.

OBG 5AE

Conducted adhesion testing of exterior surfaces of Interzinc 22 all testing values exceeded minimum 4MPa.

During the testing of this segment ZPMC attempted to remove OBG 3BW from the blasting shop and place into paint shop.

OBG 3BW

Reblasted areas were re-inspected areas of "T" stiffeners and horizontal stiffeners of floor beams required re-work. Areas were re-blasted and coating application of Interzinc 22 proceeded utilizing airspray method.

OBG 5AE

Verbal inspection request to verify chloride testing and resultant values. ZPMC requested Caltrans QA Lumley to mark the areas for chloride testing. The QA inspector selected random locations, all the testing was well below 10ug/cm.

**Summary of Conversations:**

Caltrans QA Lumley inquired as to whether or not ZPMC had conducted their required inspections and identified areas of re-work. ZPMC stated they had not performed any inspection on this segment. Caltrans QA inspector also informed ZPMC that Caltrans had not performed a complete inspection. Mr. Bill Oak of ABF informed ZPMC

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that the inspection process was incomplete and directed ZPMC to return the segment back into the blast shop.

### Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang. (858) 699-9549, who represents the Office of Structural Materials for your project.

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<b>Inspected By:</b>	Lumley,James
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Quality Assurance Inspector
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<b>Reviewed By:</b>	Miller,Mark
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QA Reviewer
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